

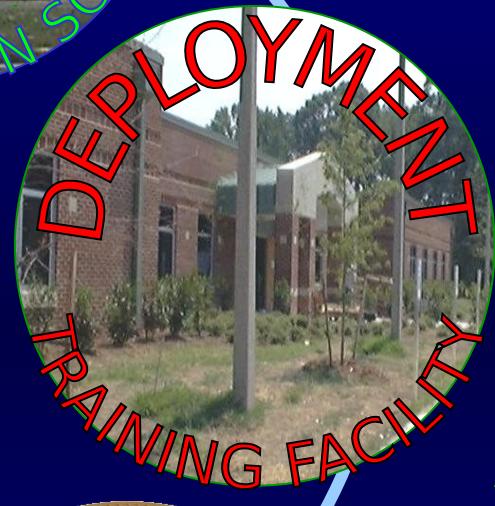


FORCE PROJECTION

(Fort to Foxhole)



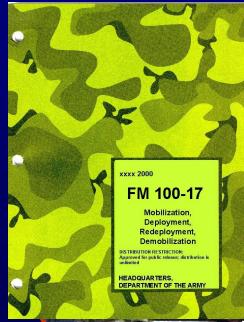
Army's
Center
of
Excellence
for Force
Projection



Fort Eustis, VA



Deployment Process Modernization Office



DOCTRINE & FUTURES DOCTRINE

- FM 100-17 SERIES
- FM 100-5
- ATWG
- AIT Doctrine
- ASB



DSCLOG/DCSOPS Chartered

OPERATIONS & TRAINING

FORCE PROJECTION TRAINING

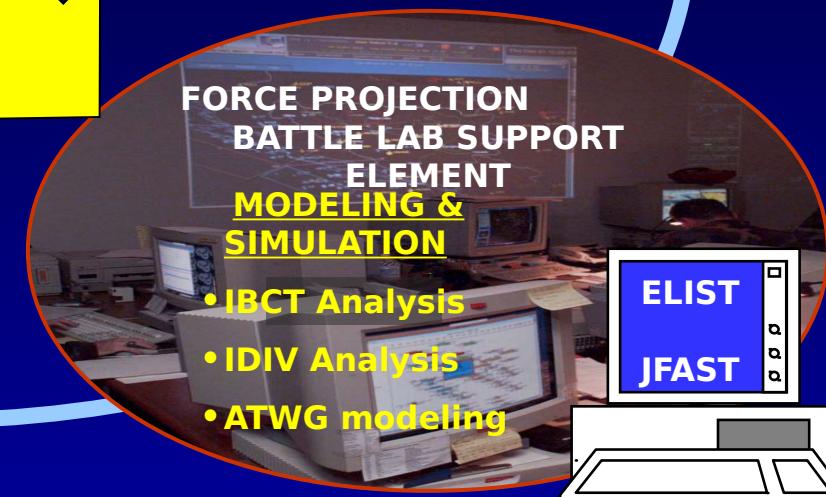
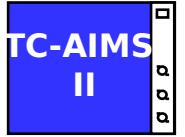
- Deployment Excellence Award
- BCTP
- CALL TEAM SPT



INFORMATION FUSION

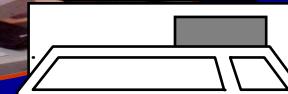
TC-AIMS II & JFRG II

- ARMY REQUIREMENTS
- BETA TESTING
- TRAINING
- REQ. DOCUMENTATION



FORCE PROJECTION BATTLE LAB SUPPORT ELEMENT MODELING & SIMULATION

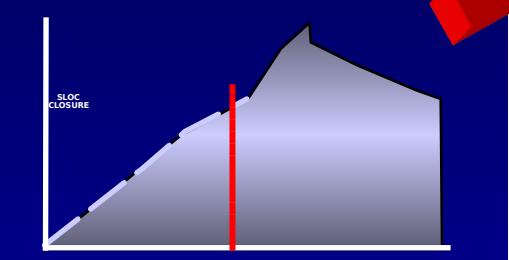
- IBCT Analysis
- IDIV Analysis
- ATWG modeling



Where we are today ...legacy force

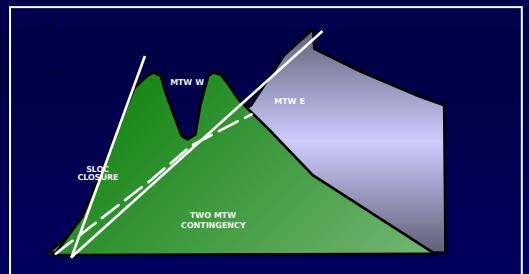
Based on MTW requirements

DESERT STORM (90-91)



5 DIVs / 150 Days

MRS BURU (93-96)
Requirements
5 1/3 Divisions
1 Corps
CSS

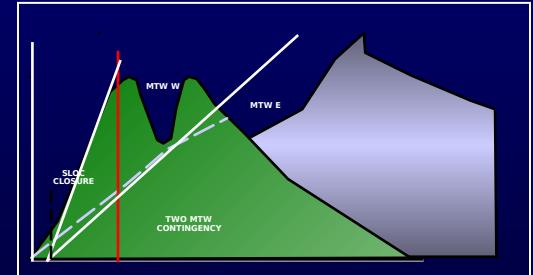


5 DIVs / 75 days

Results

LMSR 19 (20)	11
C-17s 120 (134)	65
Prepo 7 BDEs (8)	
CONUS Infrastructure	

MRS-05 (99-00)
Requirements
5 1/3 Divisions
2 Corps
CSS
SOF
Intra-theater Lift



5 DIVs / 75 days

Emerging Results

C-17 +
Containerization +
Army Watercraft Fwd Station
Intra-Theater Lift
CONUS/OCONUS Infrastructure

Vast improvements
since Desert Storm

The Nation remains globally engaged to protect and promote US vital interests

Land forces provide the Nation the full range of options for shaping the world environment



During the period 1950 - 1989 the Nation required 10 major deployments...

Since 1990, major deployments have increased to 44 --

And soldiers are remaining deployed to preserve the peace longer than ever before

“Peace is not only better than war, but infinitely more

Army Vision



“With the right technological solutions ... allow us to put a combat capable brigade anywhere in the world in 96 hours after lift-off, a division on the ground in 120 hours, and five divisions in 30 days.”



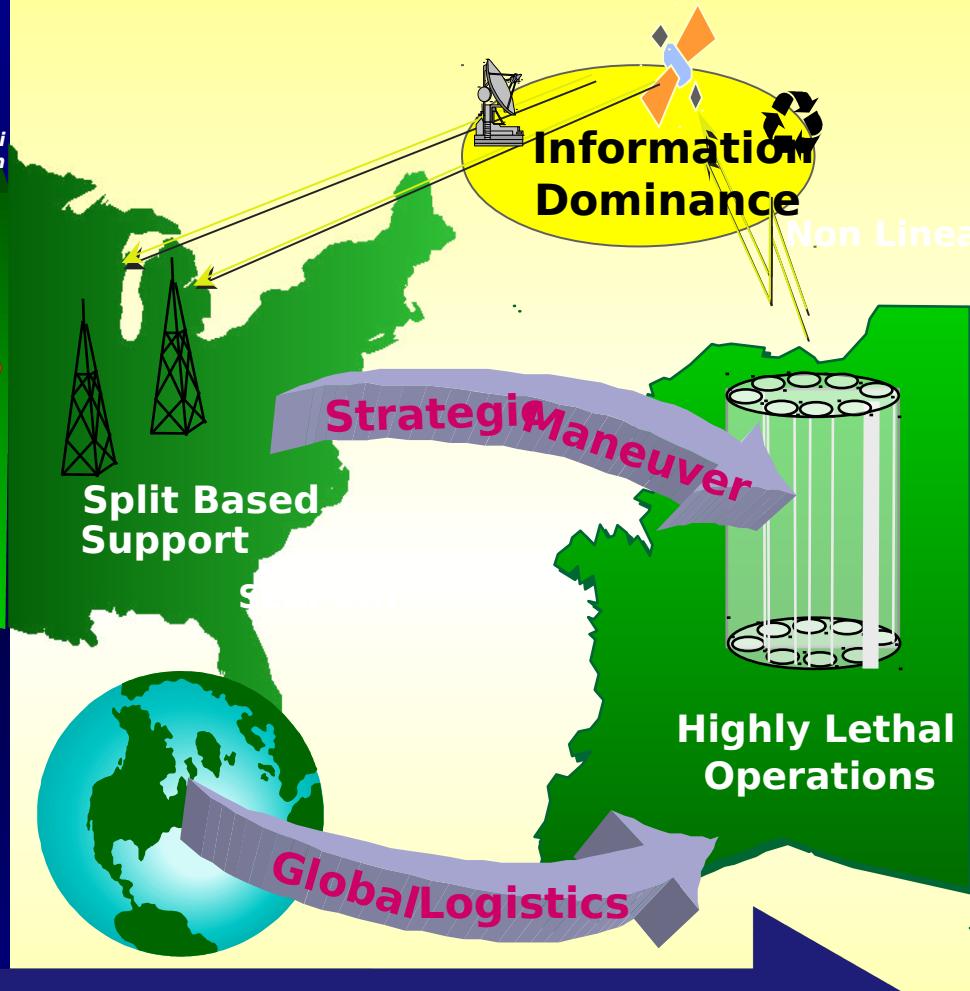
General Shinseki



Force Projection Today



Force Projection Tomorrow



Requirement for Both in 2010 - 2



Strategic Maneuver

- LIMITED SITUATIONAL AWARENESS
- CUMBERSOME ANALYSIS
- INCREMENTAL BUILD OF COMBAT POWER
- SEQUENTIAL

Army Transformation

- STATIONARY RISK
- STRATEGIC SURPRISE UNLIKELY
- SUPPLY-BASED LOGISTICS
- LARGE MEDIUM ROLL-ON / ROLL-OFF SHIPS, C-17s, C-5s



- NEARLY TOTAL SITUATIONAL AWARENESS
- IMMEDIATE ANALYSIS
- IMMEDIATE COMBAT POWER
- SEAMLESS
- DISPERSED
- STRATEGIC SURPRISE / PRECLUSION POSSIBLE
- TRANSPORTATION-BASED LOGISTICS
- SHALLOW DRAFT HIGH SPEED SHIPS, ADVANCED THEATER TRANSPORT, THEATER SUPPORT VESSEL...

Formula for Success

- Lighter, Smaller, Less
- Fuel Efficient Engines
- Tailorable Organizations
- “Smart Munitions”
- Diagnostics

- Intermediate Staging Bases?
- Prepositioning?

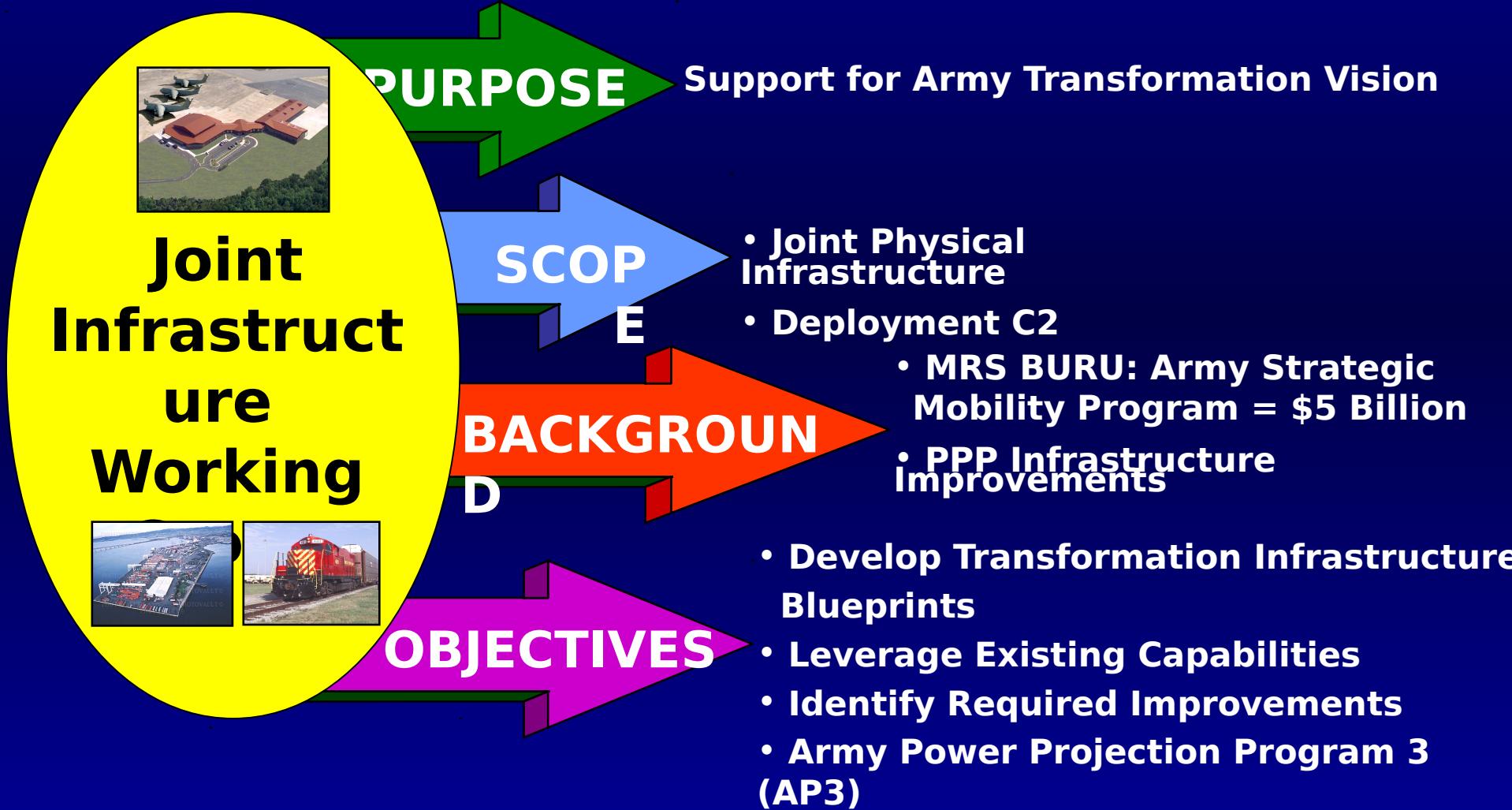
Transforming Army = Requirements * (Distance)
Requirements = (Capabilities)

- Agile and Flexible Strategic and Theater Lift
- Information Superiority
- Tailorable Force Structure
- Intermodalism



Joint Infrastructure Working Group (JIWG)

Concept of Operation



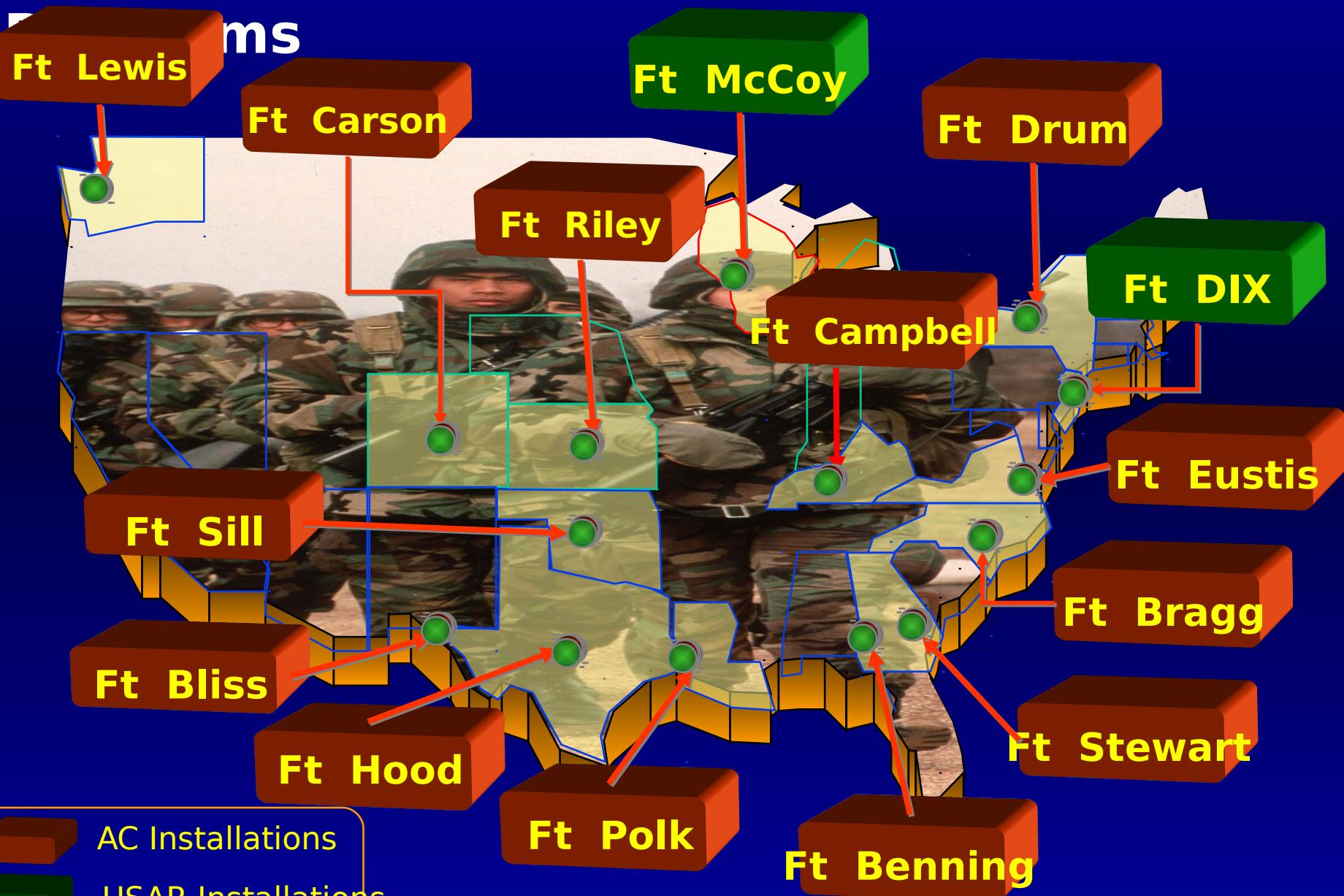
POINT: Cooperative Effort to Synchronize Service and Joint

JIWG Site Visit Matrix

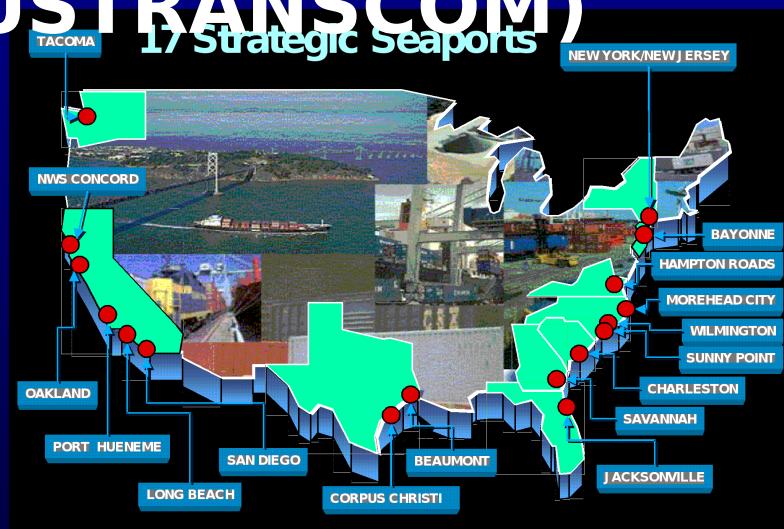
- Airfield Facilities
- Command & Control (C4I)
- Alert Holding Area (AHA)
- A/DACG Facilities
- Troop Terminal
- Ammo Supply Point
- Contingency Pallet Warehouse
- Distance to APOE
- RF/AIT



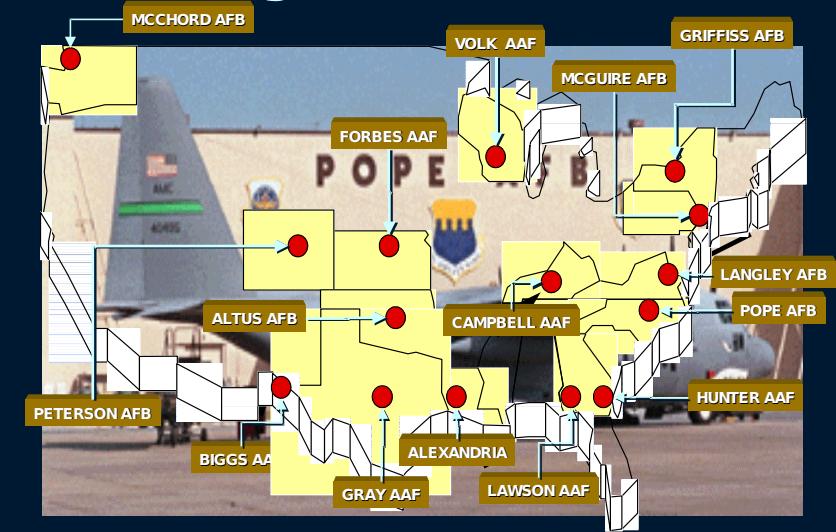
15 Force Projection Forums



US Transportation Command (USTRANSCOM)



15 Strategic Aerial Ports



Four Segments of Deployment

PREDEPLOYMENT ACTIVITIES

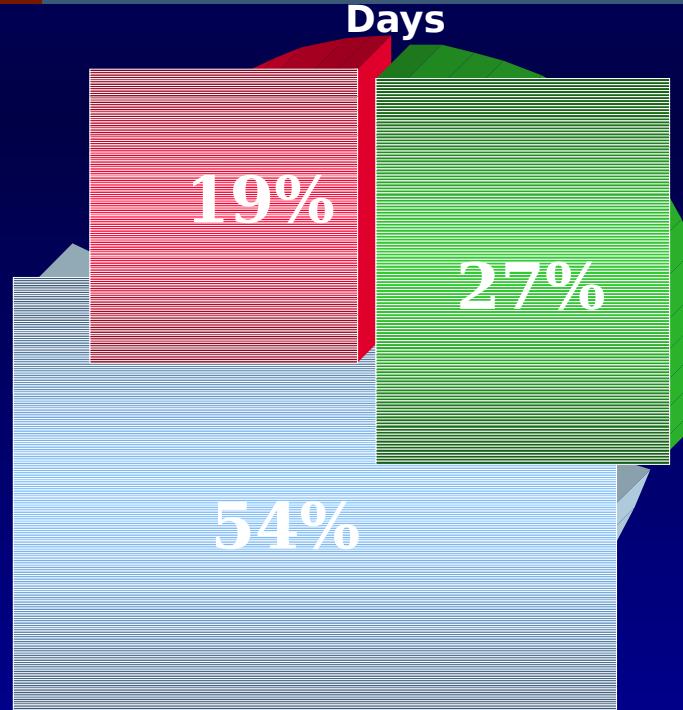
FORT TO PORT

PORT TO PORT

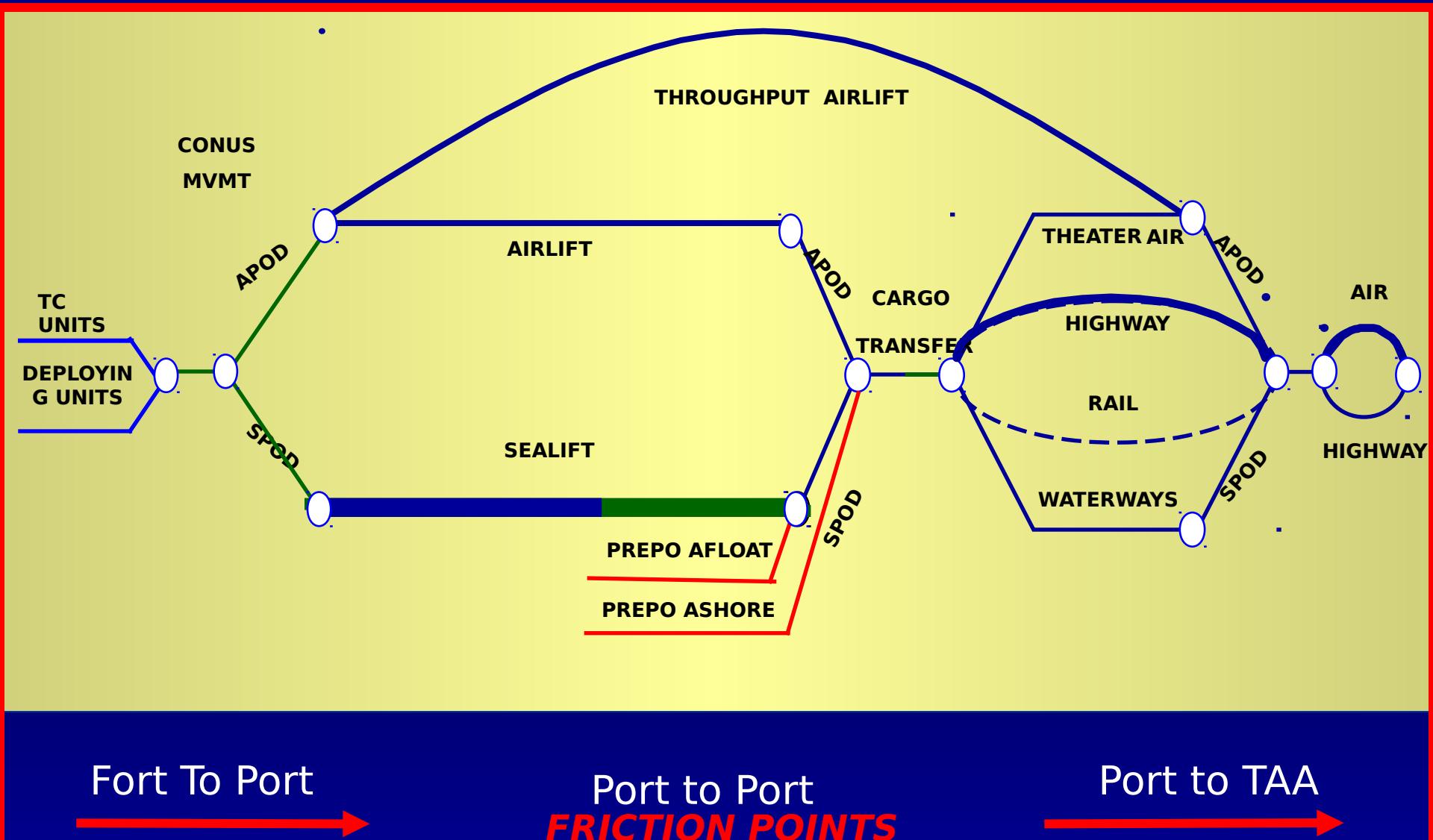
PORT TO FOXHOLE (RSO&I)



Fort to Fight Timeline - Best Case Today



Building the Theater



Fort To Port

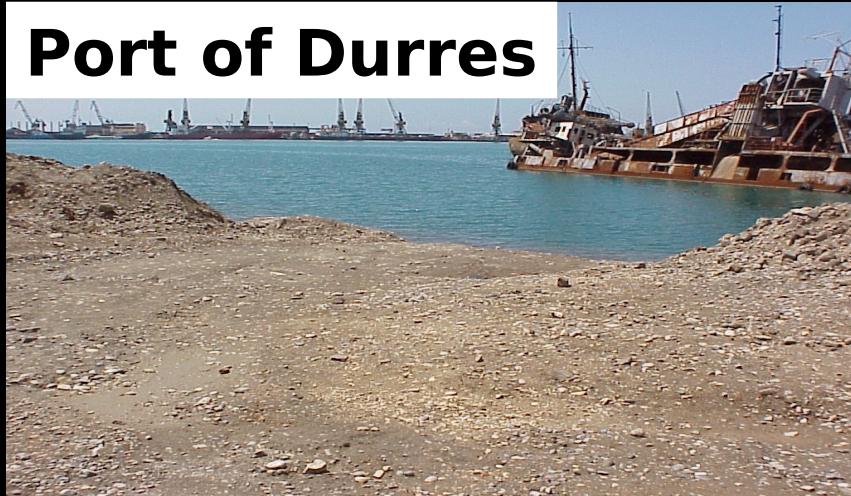
Port to Port
FRICITION POINTS

Port to TAA

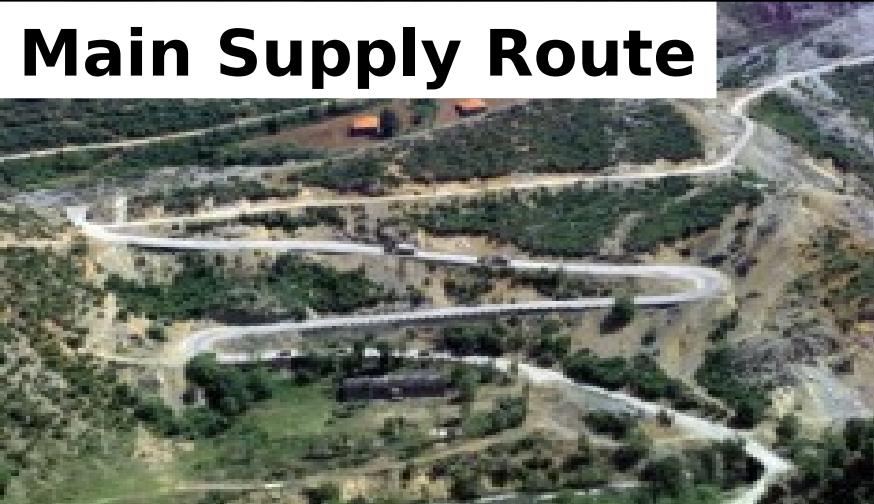


Area of Operations

Port of Durrës



Main Supply Route



Kukes Airport



Tirana Rinas Airport



POINT: Difficult To Get To, Difficult Once There!

A large commercial airplane, possibly a Boeing 747, is shown on a runway. The aircraft is white with dark blue and grey accents. In the background, several other aircraft are parked or taxiing on the tarmac under a clear blue sky.

MOG is the maximum number of aircraft on the ground that can land, taxi-in, park, be unloaded, refueled, maintained, inspected, taxi-out, be cleared for departure, and takeoff within a planned time interval.

- physical space
- processing the aircraft (from landing to takeoff)

APOD / SPOD Challenges



Speed: World Class Airport

Flight Data

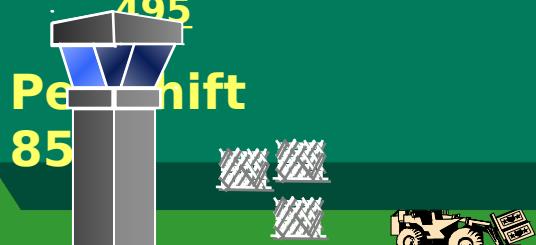
Fire crew	18
Security force	27
Fuel handlers	49
Baggage handlers	239
Air traffic controllers	22

Flight line

195

Per shift

85

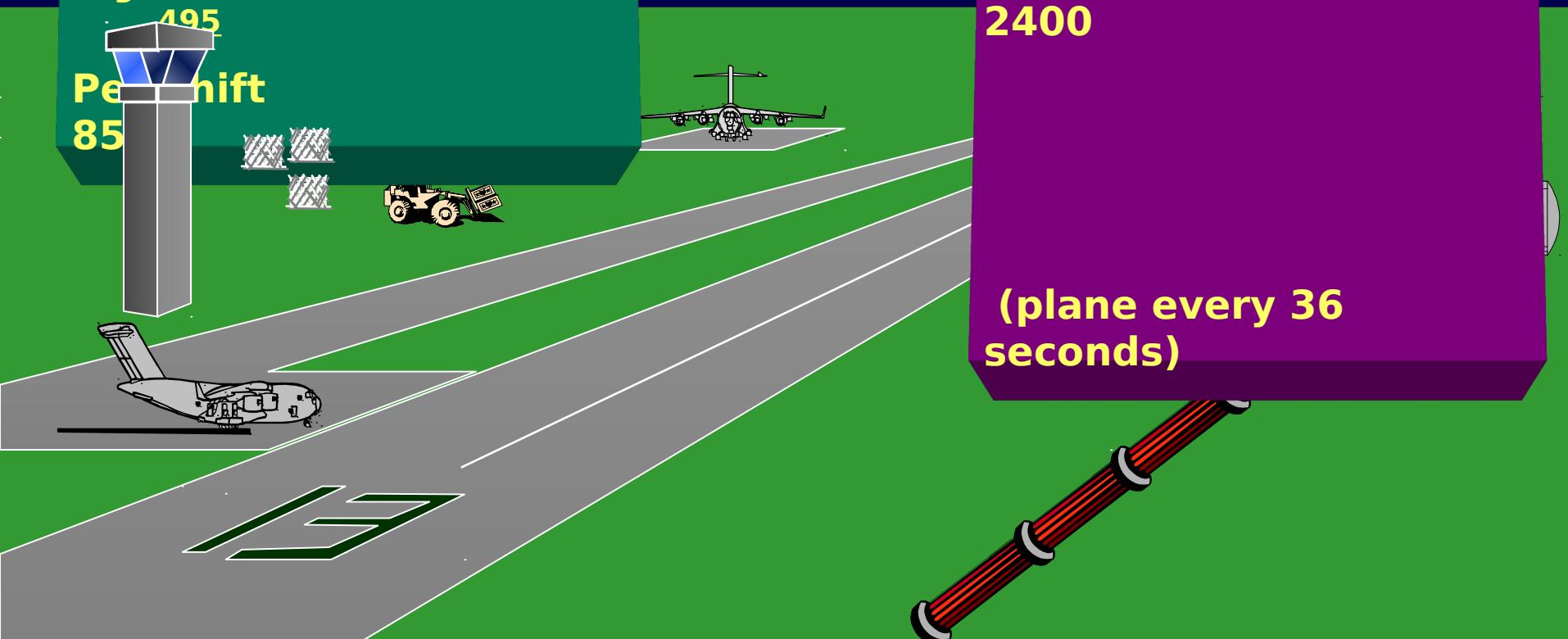


Plane Data

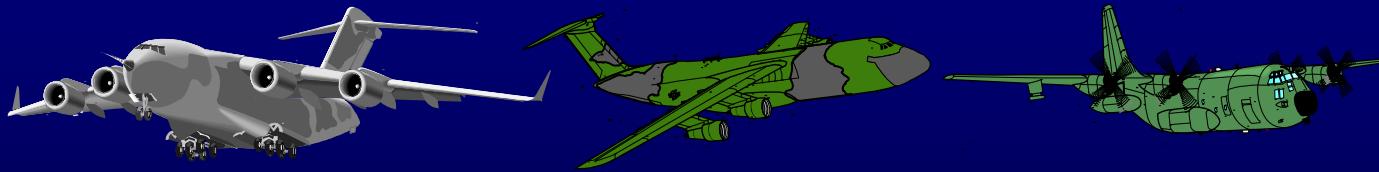
Inbound Cargo	300
Inbound Passenger	900
Outbound Cargo	300
Outbound Passenger	900

2400

(plane every 36 seconds)



Deployment Overview: Lift Characteristics



	C17	C5	C-130
Average Airspeed	450 Knots	450 Knots	300 Knots
Pax Load*	12 (Avg)	36 (Avg)	0 / 92
Avg Cargo Payload *	49	66	15.7 / 0
Avg Load Times	2.25 hours	4 hours	1.5 hours
Avg Off-load Times	2.25 hours	3.25 hours	1.5 hours
Avg Range Loaded *	8.5 hours	8.5 hours	10.5 hours

Based on data provided by USTRANSCOM using the MASS model

Deployment Overview: Lift Priorities



YOUR SUSTAINMENT

CL IX, ETC.

POINT: DEPLOYERS AND SUSTAINMENT
COMPETE FOR LIMITED AIRLIFT !!

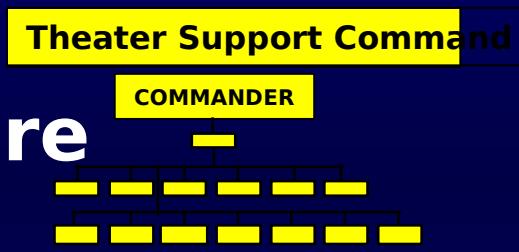
- 1A1 President
- 1A2 Forces In Combat
- 1A3 Presidential Program
- 1A4 Special Weapons
- 1B1 Secretary of Defense Missions
CONTINGENCY OPERATIONS
- 1B2 JCS
- 1B3 Validated Min. Freq. Channel
- 2A1 Combat Support
-
- 2B1 JCS-Directed Exercises
- 2B2 JCS-Coordinated Exercise
-
-
- 3A3 Approved Reqmts. Channels
-
-
- 4B3 Static Display

Army's Four Part Strategy to Improve Force Projection:

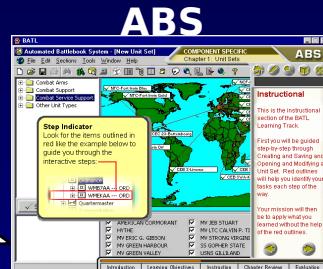
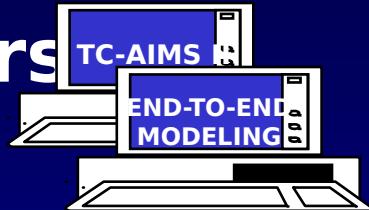
Doctrine



Force Structure



Enablers



Training



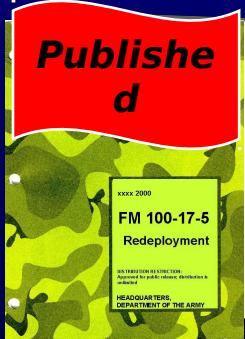
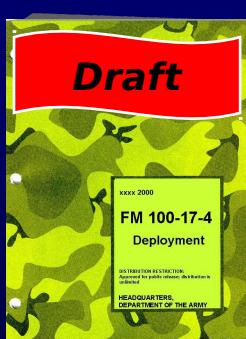
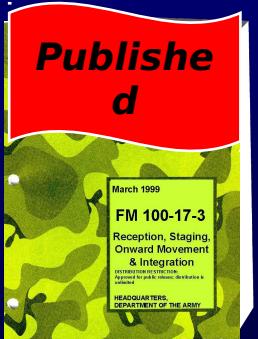
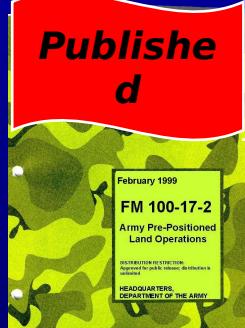
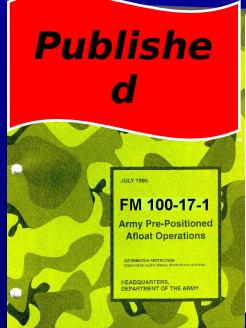
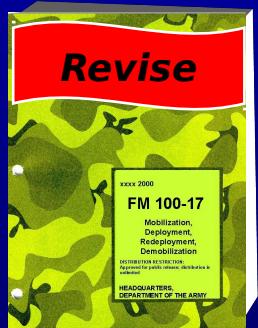
Exercises/ Deployments



BCTP



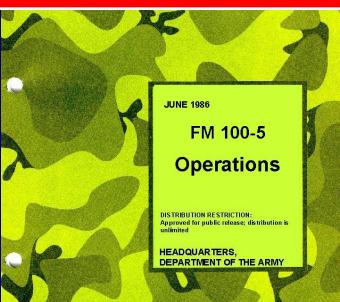
Force Requirements



Force Projection Doctrine

- *Intellectual cornerstone to enable commanders to deploy effectively and efficiently*
- *Complementary to Army Vision*

Chapter 3 “Strategic Responsiveness”



FM 3-0 Operations

- Framework for Strategic Responsiveness
- Inextricable Link Between

Deployment and Employment

Joint Doctrine

Joint Doctrine

JP 3-35



JRSOI

Family of Force Projection Doctrine



- **Provide Specific Service Guidance Within the Framework of Joint Operations**
- **Emphasize Joint Impact and Optimize Joint Effects**

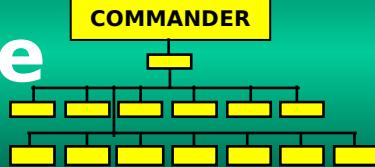
Army's Four Part Strategy to Improve Force Projection:

Doctrine

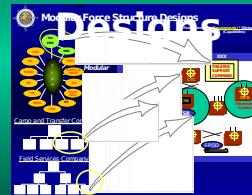


Force Structure

Theater Support Command



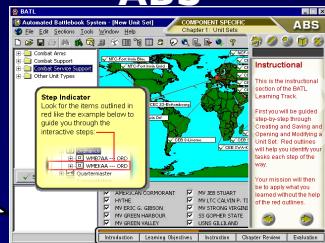
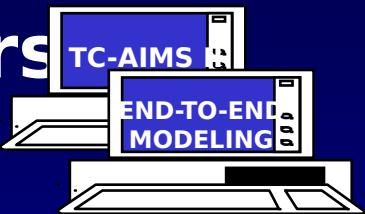
Modular Force Structure



Force Requirements



Enablers



Training

Exercises/ Deployments



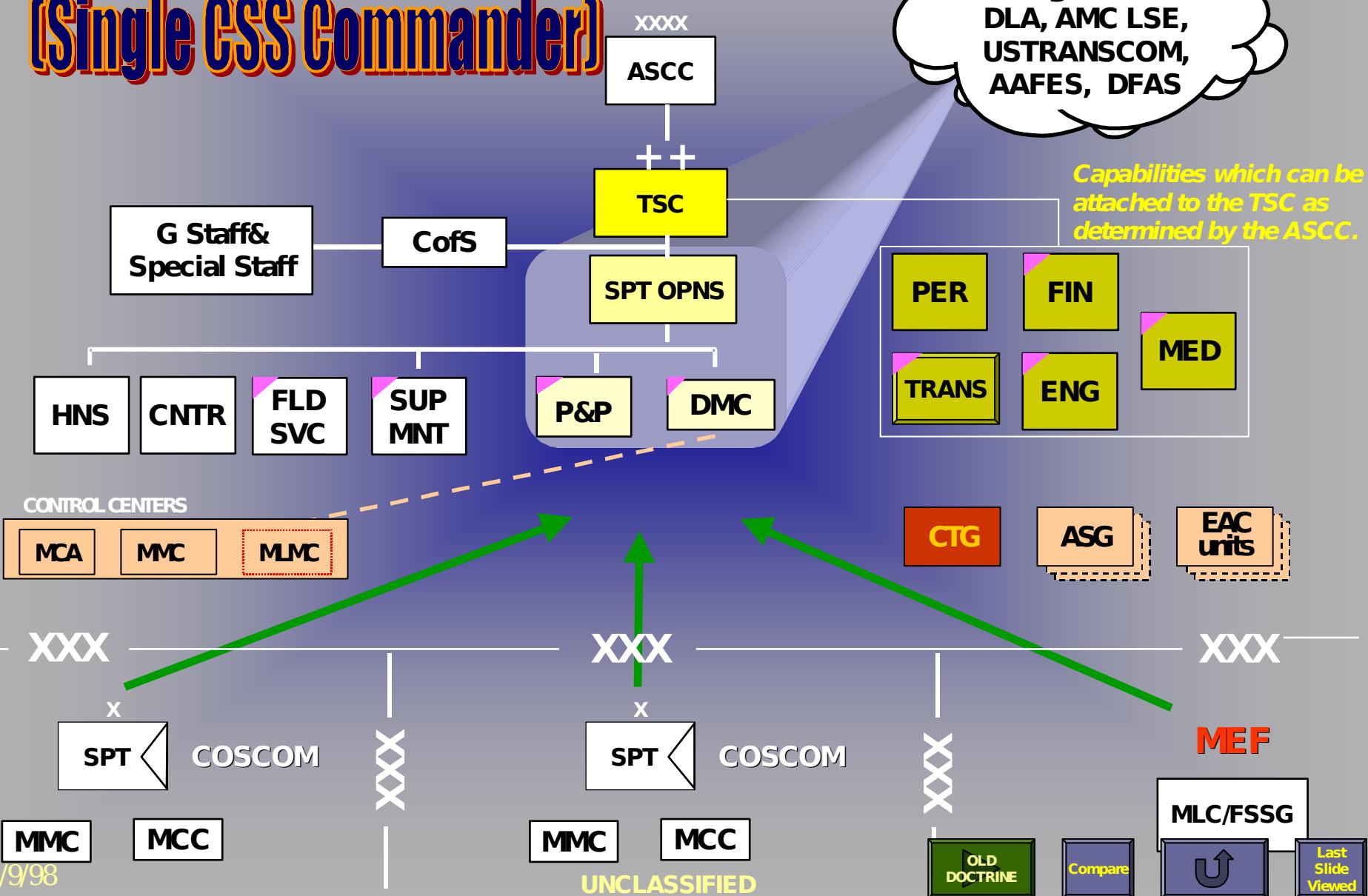
CSA Deployment Excellence Award



BCTP

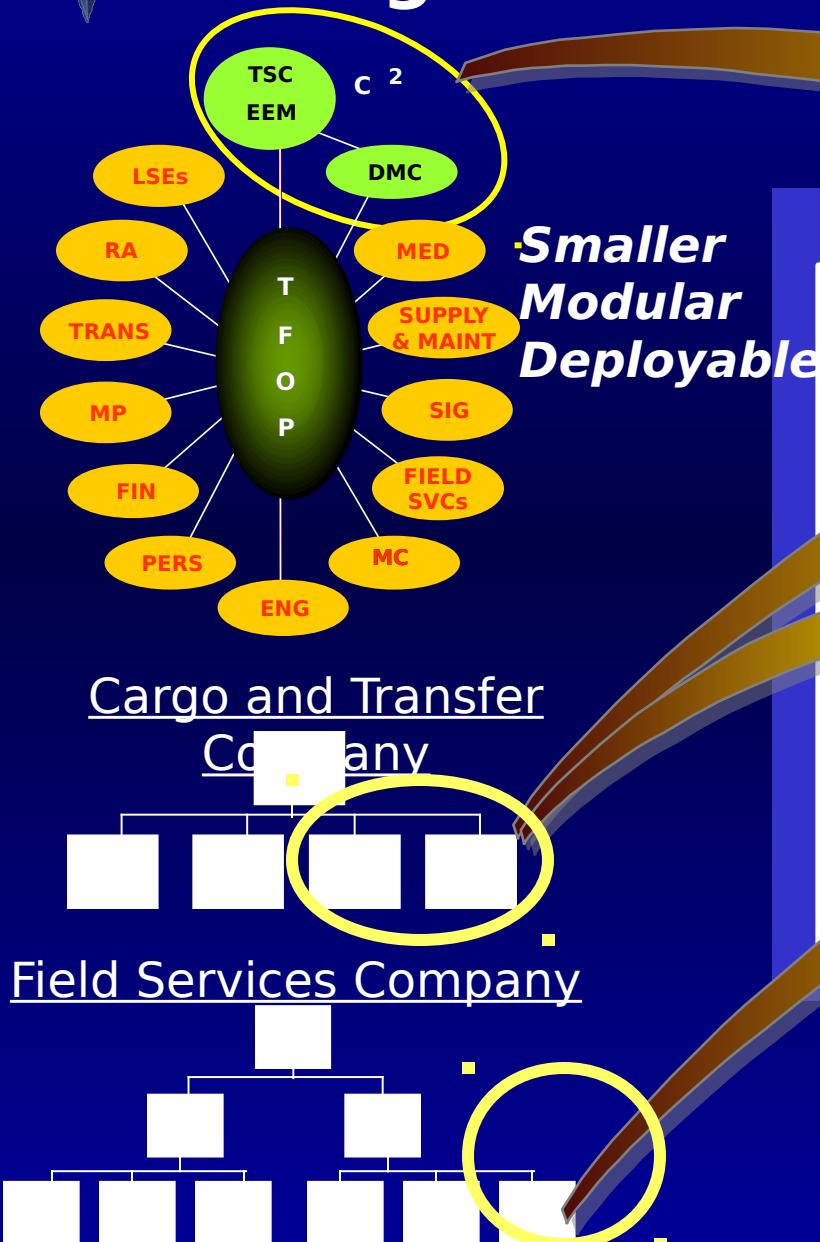


Theater Support Command (Single CSS Commander)

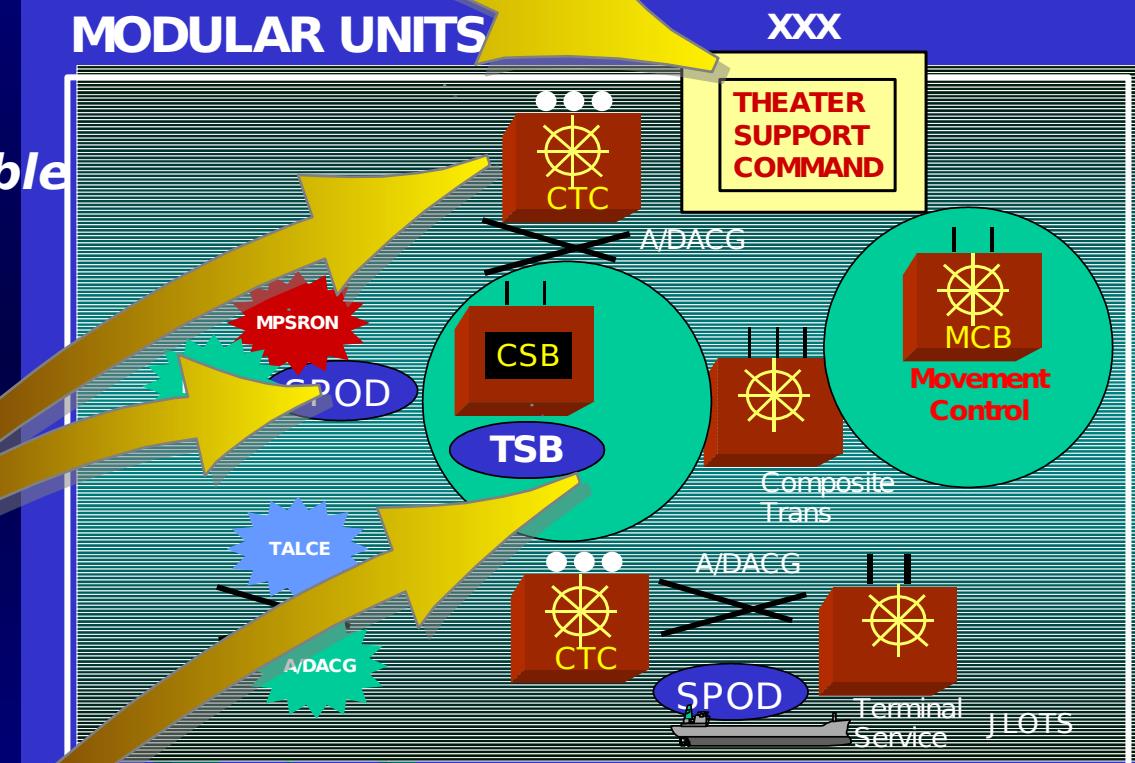




Modular Force Structure Designs



Force Closure = **Requirements** * (Distance
(Capabilities))



Army Enabler - Cargo Transfer Company



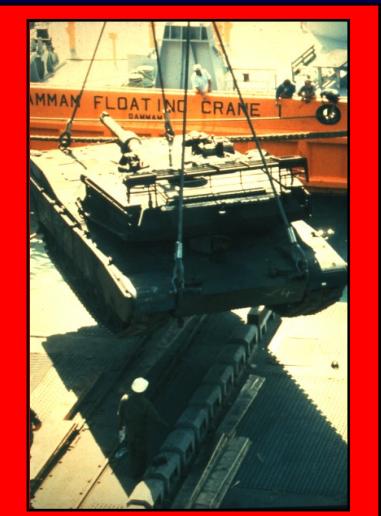
Airfield (Arrival/Departure)



Rough Terrain Cargo Handler (RTCH)



Seaport (Ship Ro-Ro)



Seaport (Ship Lo-Lo)



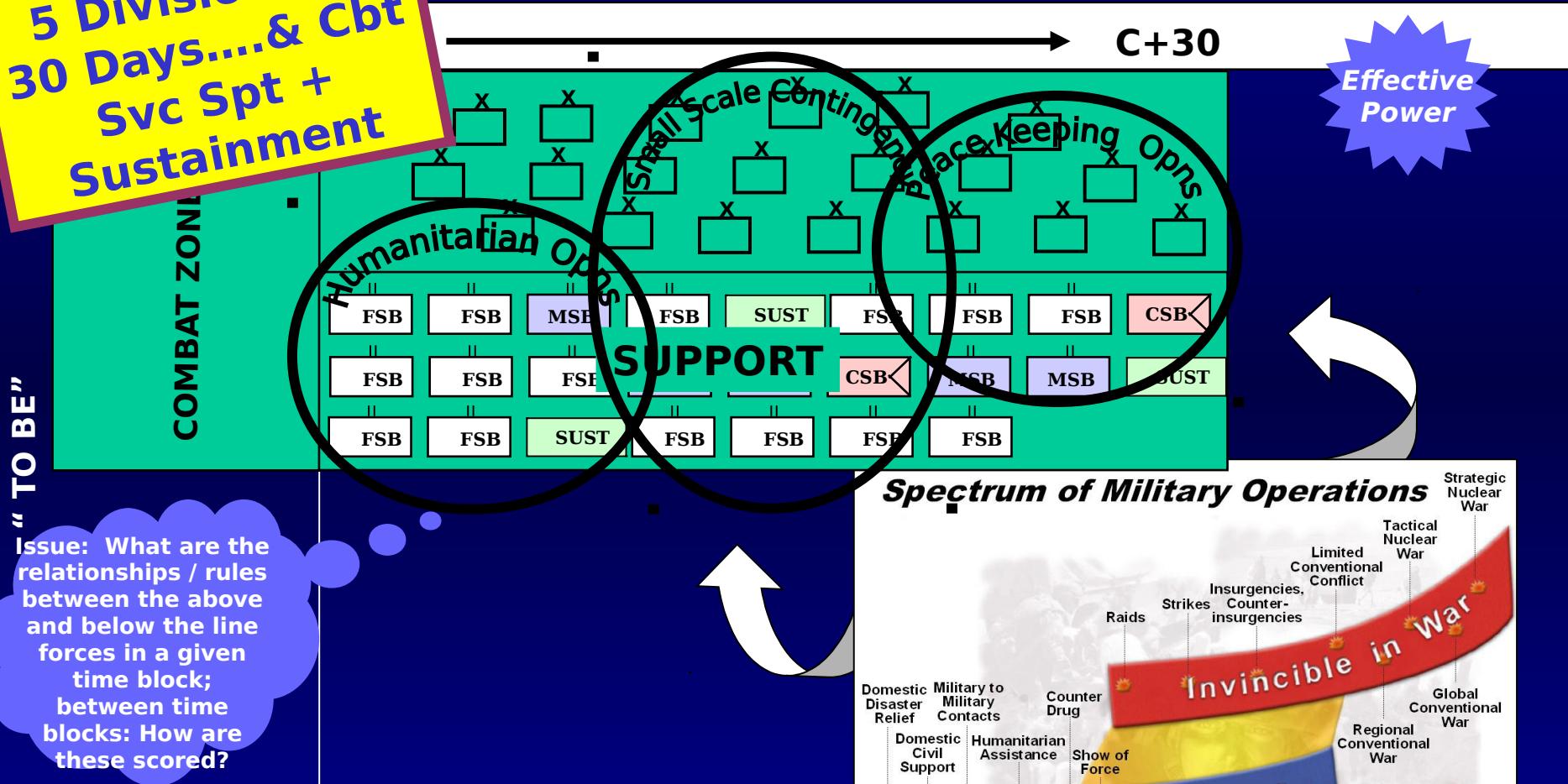
Railhead Ops



Logistics-Over-the-Shore

Force Requirements Analysis

5 Divisions in
30 Days....& Cbt
Svc Spt +
Sustainment





Force Structure

Force Closure = **(Requirements) * (Distance)**
(Capabilities)

Deployable

AOE / Force 21



5 Gal per Mile

**Faster
Lighter and
Reduced
RSO&I**

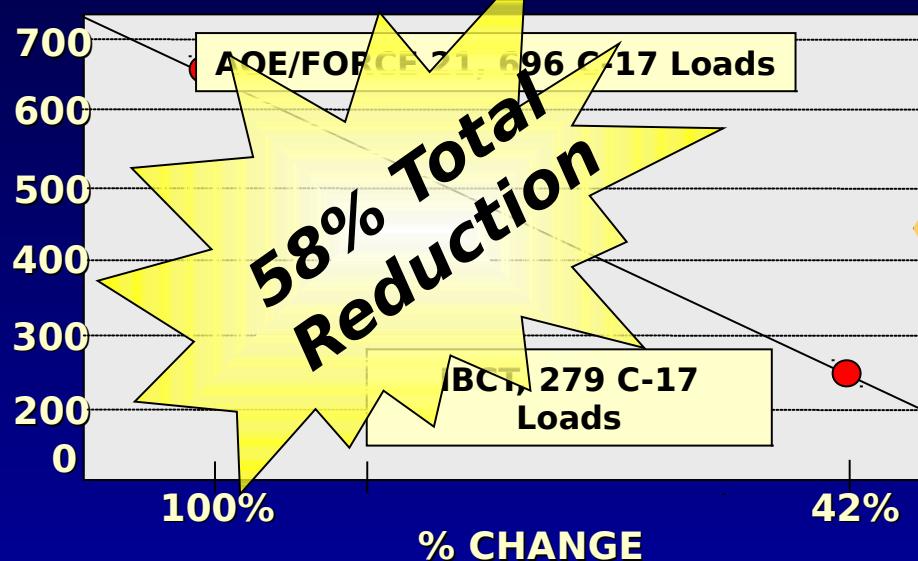
IBCT



1 Gal per
Mile

C-17 Loads

Deployable



Lethal, Lighter, Faster

Key Performance Parameters

IAV/C130



Possible IAVs



C130

IAV

Requirement:

- Must enter and exit aircraft capable of immediate combat operations (Does not require a full basic load)
- Does not exceed 13,000 lbs max axle weight on the treadways
- Combat capable deployment weight must not exceed 38,000 lbs GVW (19 STs)
- < 38,000 lbs GVW allows C-130 transport of 1,000 nautical miles without requiring a USAF waiver for maximum aircraft weight on fixed runway

POINT: C-130 with IAV Must Be Capable of Assault Strip Landing with a Waiver

Army's Four Part Strategy to Improve Force Projection:

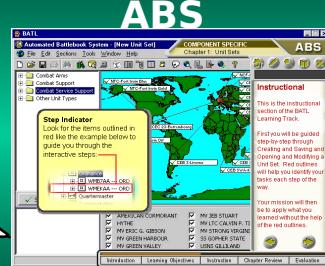
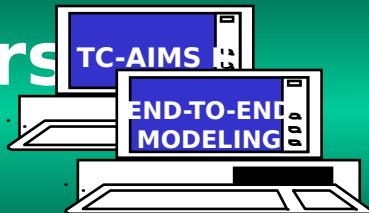
Doctrine



Force Structure



Enablers



Training



Exercises/ Deployments



Force requirements



TC-AIMS II



Joint

In-Transit
Visibility

Movement Planning
Movement Control

Army
Lead

Force
Projection

TC-AIMS
TC-ACCIS
DAMMS-R
Functionality

TC-AIMS II



Provides Commander's Visibility

ADDS

Improved Automated Planning
Automated Blueprint
Decision Tool
Faster Response Time

Provides Units

- Deployment Equipment List
- Load Planning
- Cargo Manifesting
- Personnel Manifesting
- Movement Clearance



Interfaces

- To Global Transportation Network (GTN)
 - CONUS Movement Systems
 - Strategic Lift Systems
- Joint Operations Planning & Execution System (JOPES)

- Deployable Automation
- Flows thru Chain of Command
- Electronic Interfaces

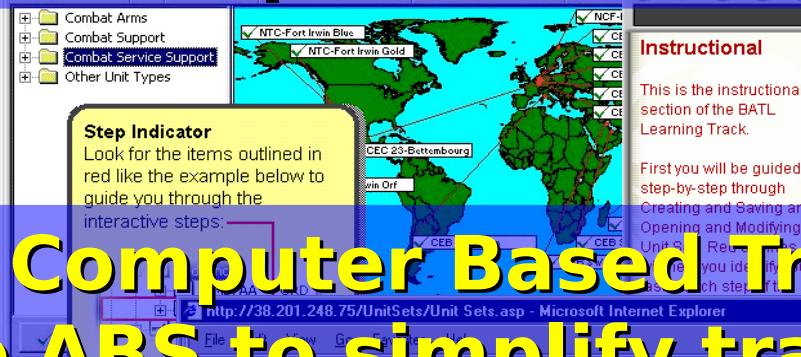
- Rapid Response in Planning/Sourcing
- Accurate Deployment Data
- Supports Concurrent Planning

Single DoD System Supporting all Unit and Installation Deployment

AUTOMATED BATTLEBOOK SYSTEM (ABS)



ABS updated Quarterly on CD-ROM



Computer Based Training (CBT) being added to ABS to simplify training & increase usage



BattleWeb will bring ABS to the worldwide web allowing the warfighter to obtain up-to-the-minute data on equipment status

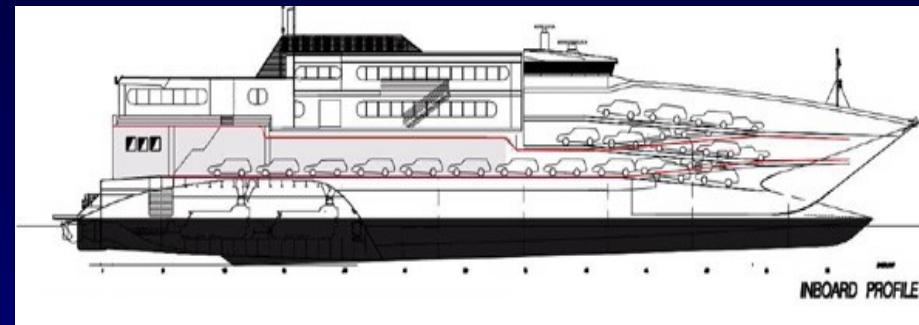
<http://www.battlebooks.com/>

Theater Support Vessel



1 Sailing delivers 4.5 C5
or 6 C17 equivalent
loads

Displacement 250 Long Tons (835 lightship)
Length 284 feet
Beam 85.2 feet (overall) 14.2 feet (hulls)
Draft 11.8 feet



Capabilities:

Max Sustained Speed 43 Knots

Capabilities 600 Troops with Gear + 200 Commercial sized cars

Range 1000 Nautical Miles fully loaded.

Loading/Discharge two 12 meter access ramps to facilitate stern loading

Berth Discharge Rates < 1 Hour

In-Stream discharge performed in Dili, East Timor

Potential HSS
Lease
Candidate

96 Meter Layout

Capabilities

- 350-600 Soldiers
- 600-1000 STONs
- 1000-1200 NM Ran
- 40+ Knots

Lease Partners

U.S. Army



U.S. Navy



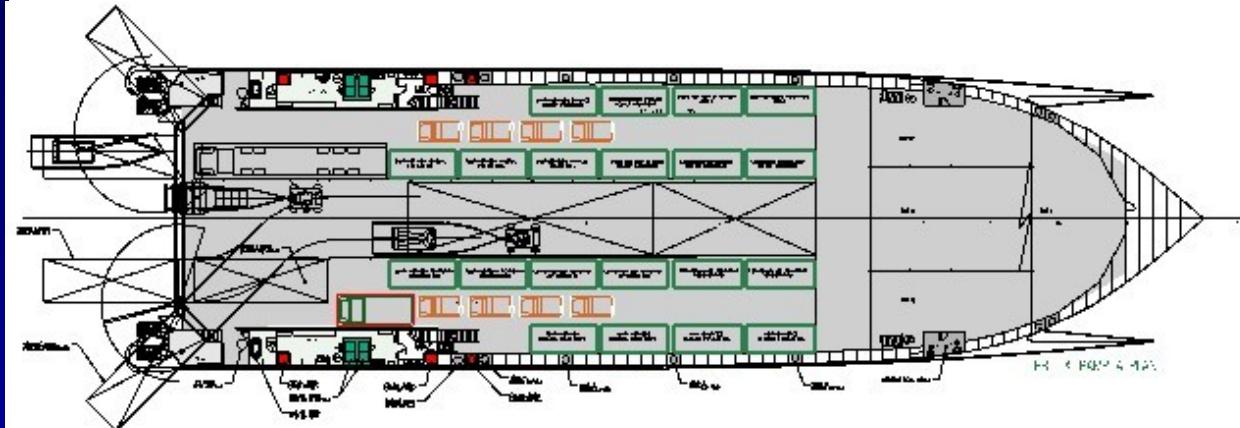
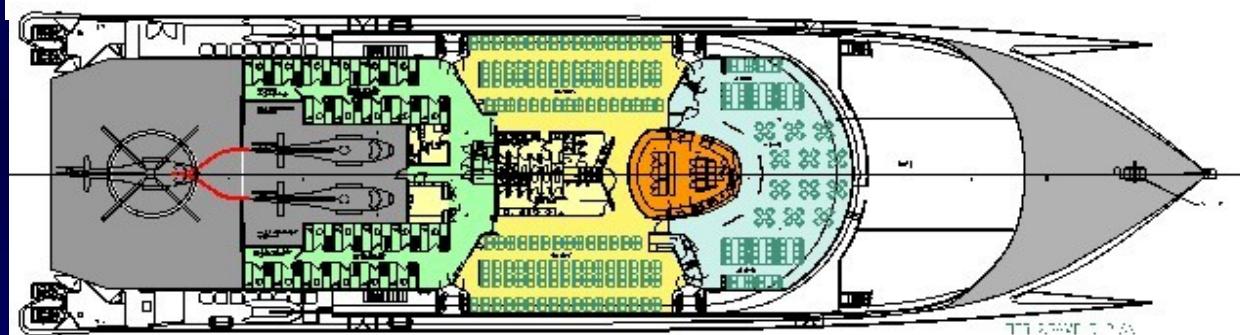
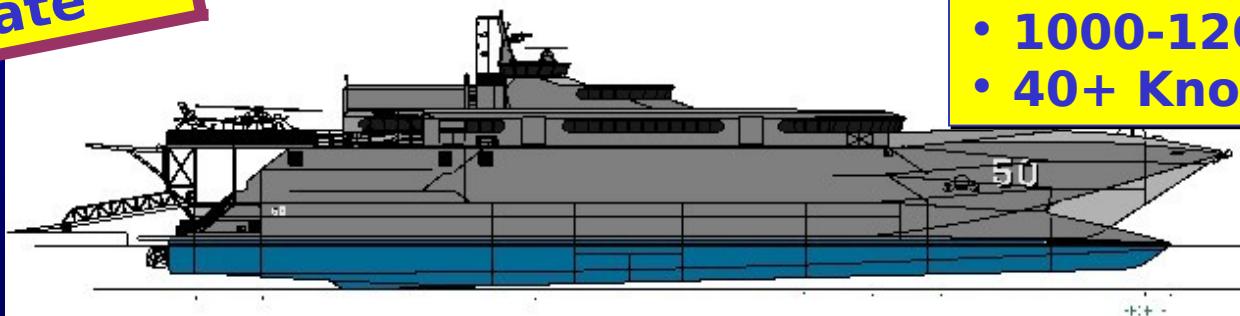
U.S. M.C.



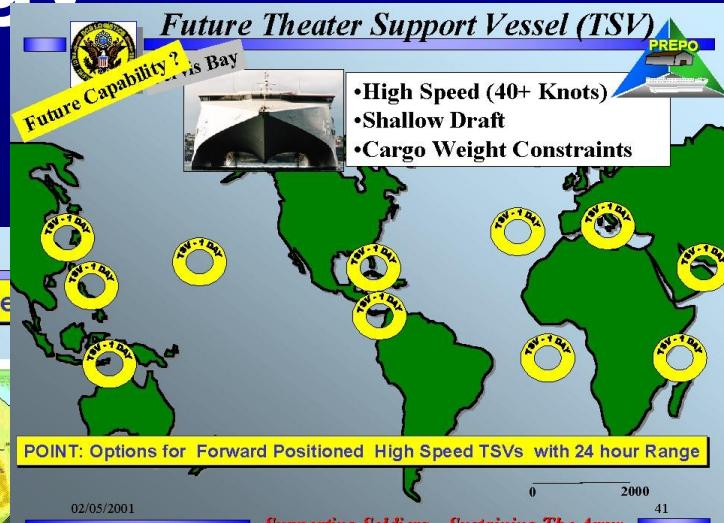
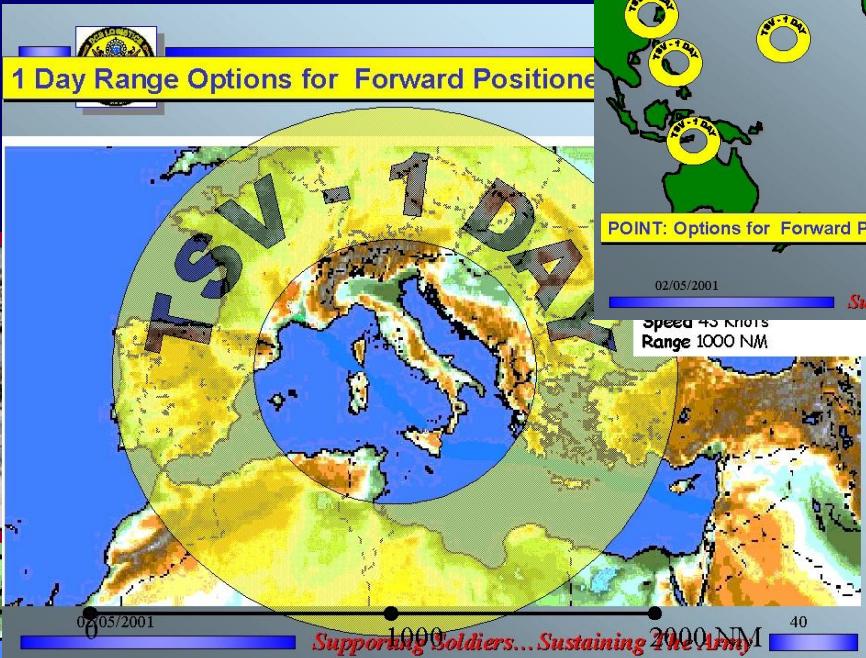
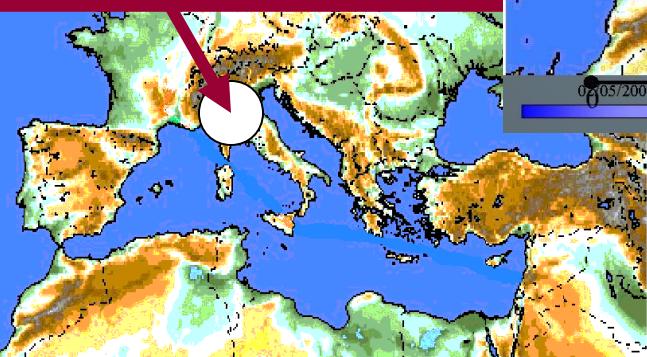
U.S. TRANSCOM



U.S. C.G.



Possible PREPO Strategy



Point: Prepositioning can be more responsive with f

Possible PREPO Strategy



Point: TSV + PREPO AFLOAT Provides Increased Responsiveness

not necessarily authoritative.

Walvis Bay KAI

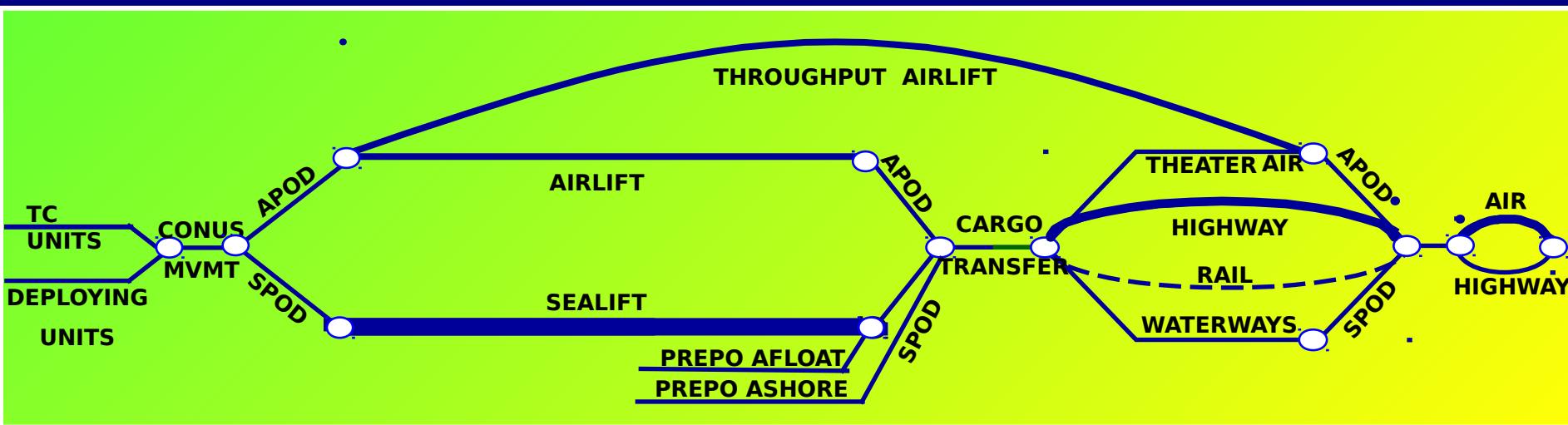
Short Range Intra-theater Scenario

Sicily to Albania



Mode Port Capability	C130 MOG 3	C130 MOG 6	C17 MOG 2	TSV 9300MT/Day	TSV 18600MT/Day
Intra-theater	15.68 Days	7.88 Days	12.23 Days	4.57 Days	2.56 Days

Strategic Agility



CONUS

Dependent

C-5
Civil Reserve Air Fleet
Large Medium Speed
Roll-on/Roll-off
Fast Sealift Ships
Ready Reserve Force
Voluntary Intermodal
Sealift Agreement

ISB

Semi-Dependent

C-17
C-130
SSTOL
SkyCat
CargoLifter

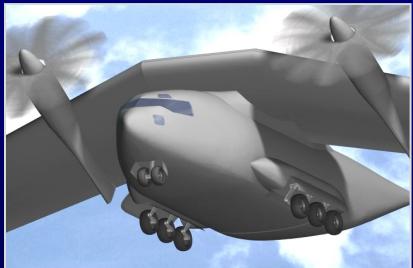
BATTLESPACE

Independent

Joint Transport
Rotocraft
Shallow Draft HSS

2015 Technology

Super Short
Take Off and Landing



(Advanced Theater
Transport)

Two Future Combat Systems
3K Nautical Miles
750 Foot Runway

Joint Transport Rotorcraft



One Future Combat System
2K Nautical Miles

Shallow Draft High Speed
Ship



55 KT
Three ships deliver Interim
Brigade Combat Team
intact

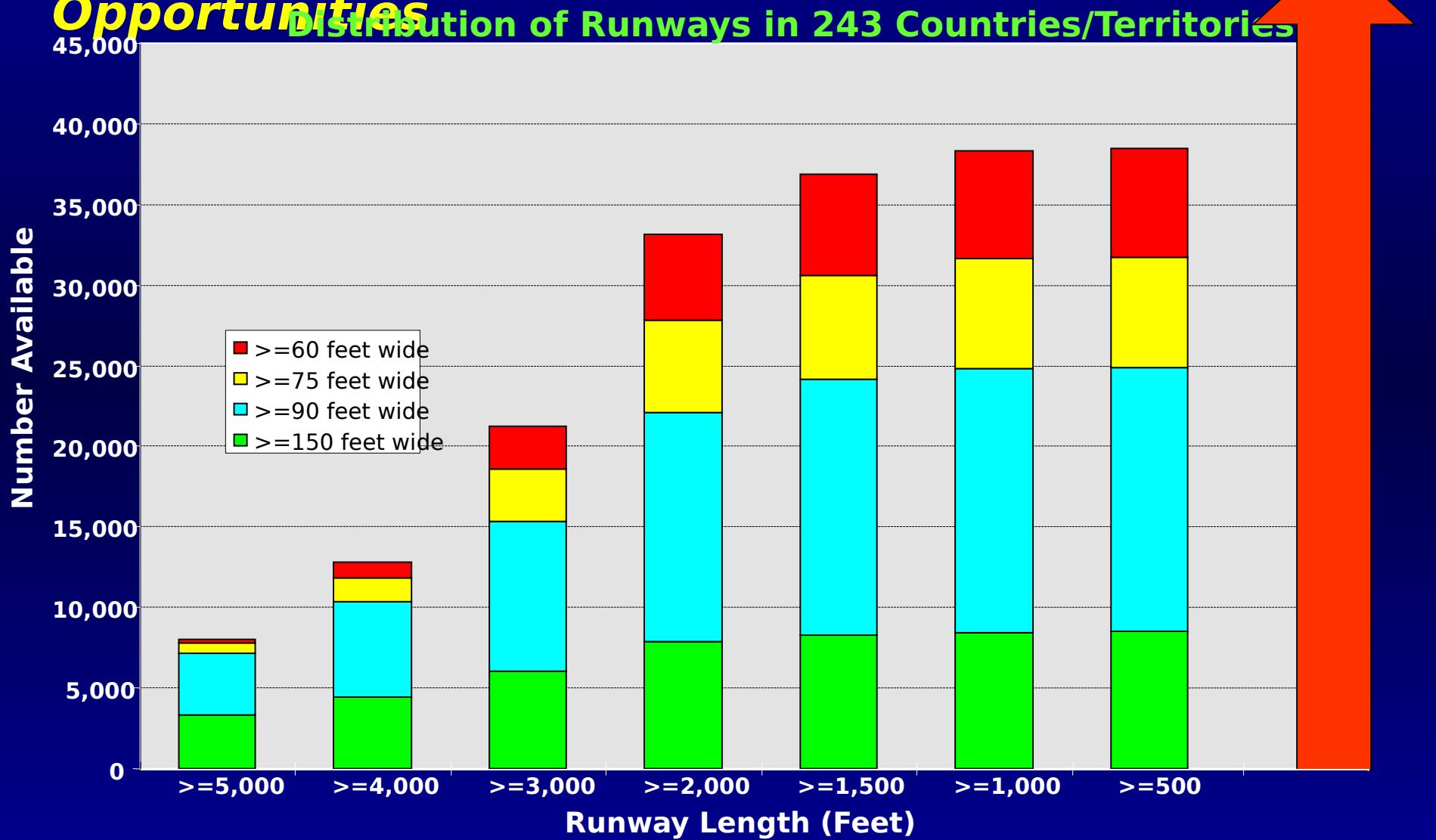
Theater Support Vessel



12 Theater Support Vessel
sorties deliver Interim Brigade
Combat Team intact 400
Nautical Miles

Advanced Theater Transport (ATT) and Joint Transport Rotocraft (JTR) Runway Opportunities

ATT / JTR
Landing
Sites



POINT: ATT and JTR landing sites are “off the chart”

Tomorrow's Technologies

SkyCat



**100KTs / 1000 STs
600'by4,000'**

Cargolifter



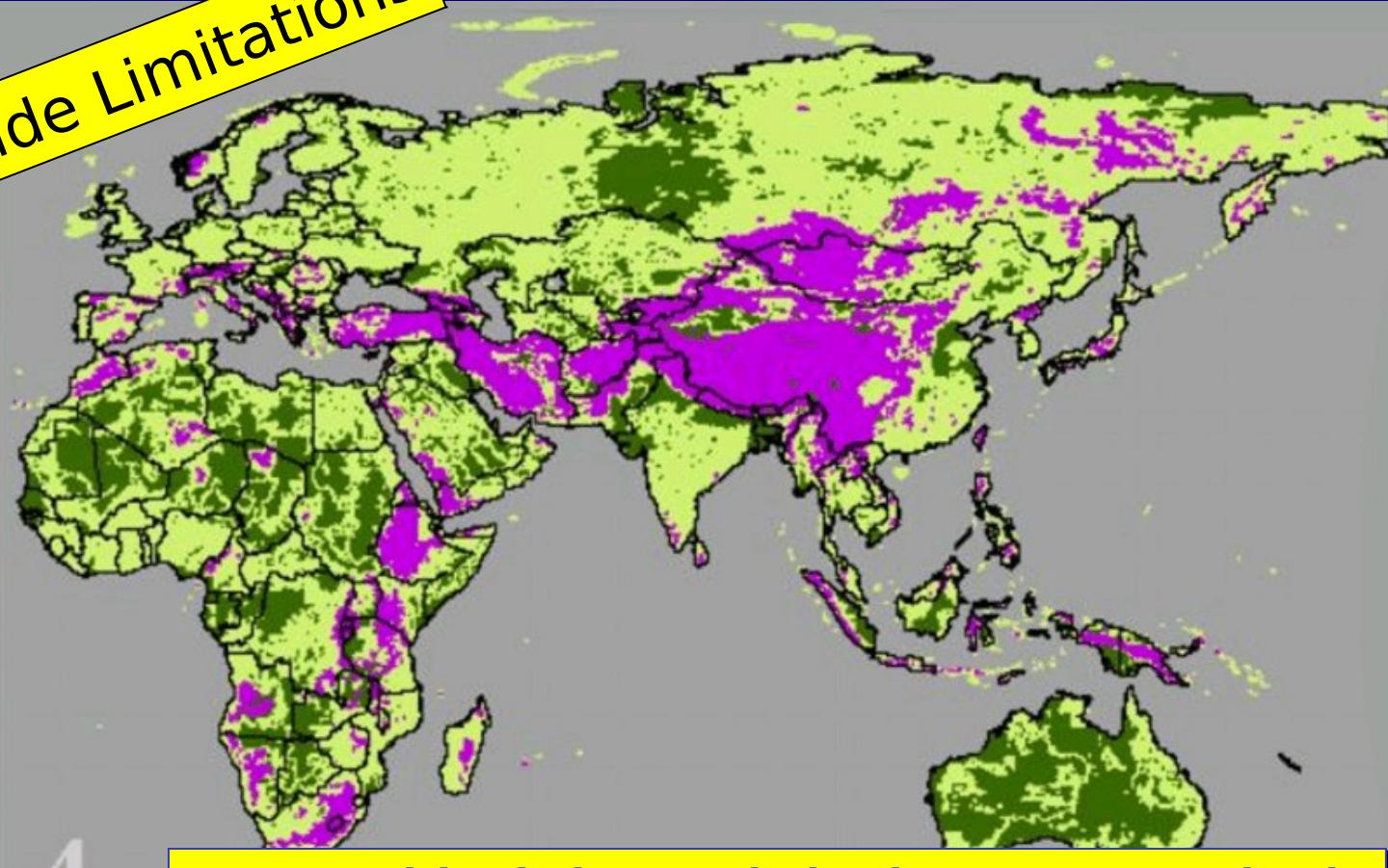
**60 Kts/160 STs
400'by400'**

Boeing Ultra Heavy Lifter



Worldwide Elevations

Altitude Limitations



POINT: Altitude is Restrictive in SW & Central Asia



Elevations at or above 5000 FT

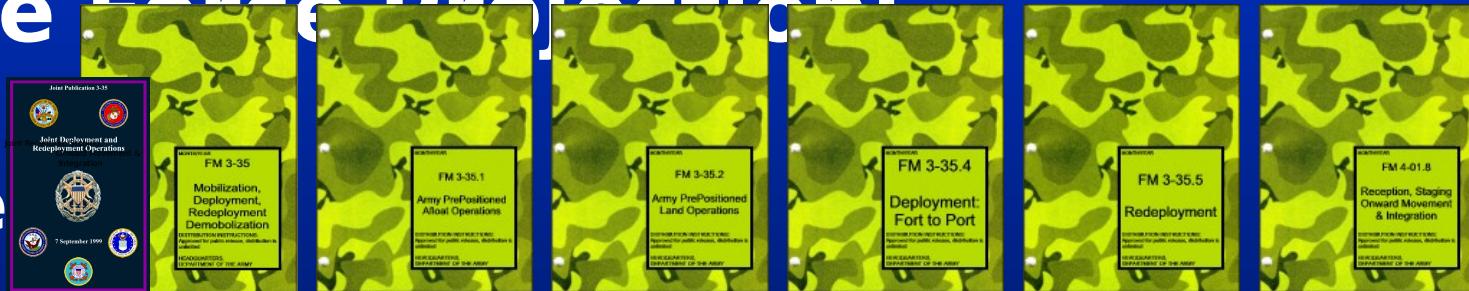
Elevations at or below 5000 FT

Areas of Minor Relief or "No Data Available"

1000 0 1000 2000 Miles

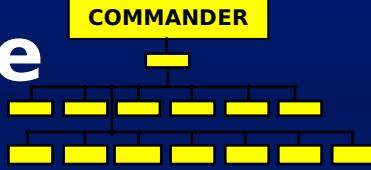
Army's Four Part Strategy to Improve Force Projection

Doctrine

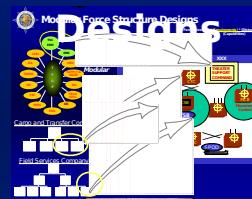


Force Structure

Theater Support Command



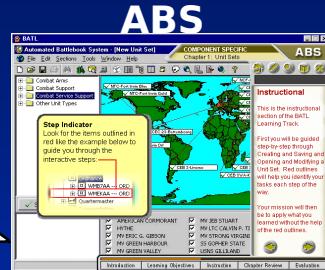
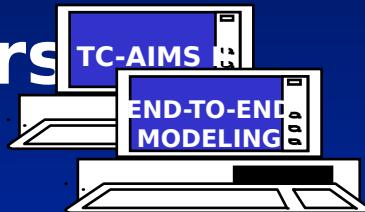
Modular Force Structure



Force Requirements



Enablers



Training

Exercises/ Deployments



CSA Deployment Excellence Award

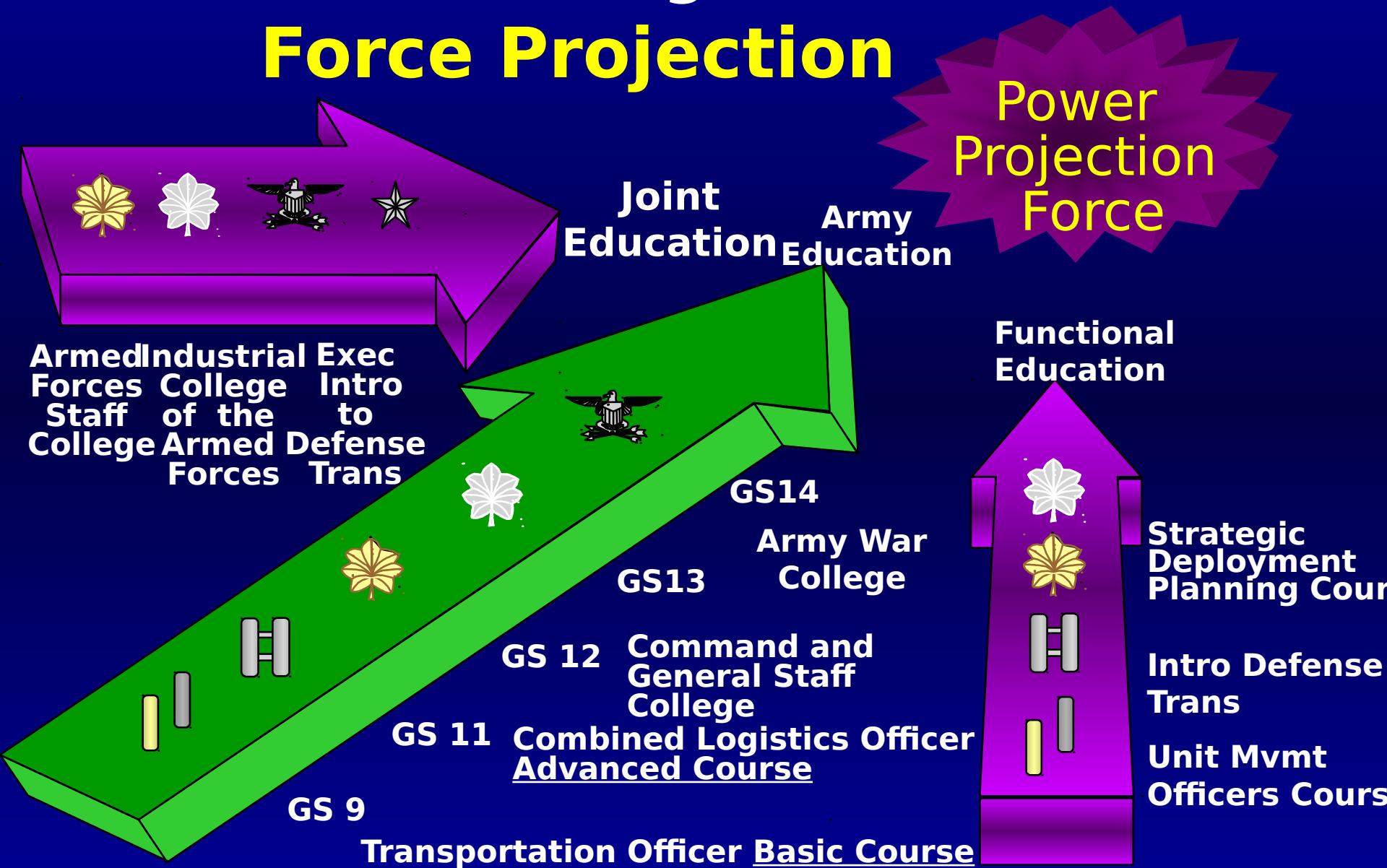


BCTP

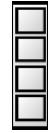


Individual Training

Force Projection



Mobility Warrant Officer



- 46 AC Positions

- 62 RC Positions

Unit Move Operations



Air Deployment Planning



Mobility Automation



Movement Management Operations



Convoy Operations



FY98 - Submit MOCS Proposal

FY99 - Establish MOS

FY00 - Begin Recruiting

FY01 - Begin Training

FY01 - Field First Warrant Officers

FY18 - Promote First CW5

Collective Training

Battle Command Training Program (BCTP)



Staff Seminar

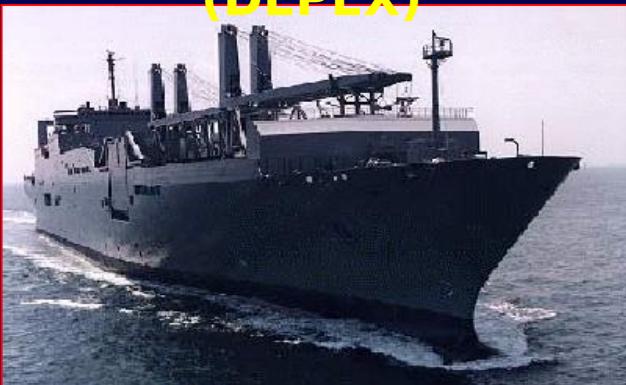


National Training Center (NTC)

3rd Inf Div



Deployment Exercise (DEPEX)



Sea Emergency Deployment Readiness Exercise (SEDRE)

CINC EXERCISES

Deployment Exercises and Operations



JFCOM /
UNIFIED ENDEAVOR



EUCOM /
JOINT ENDEAVOR



PACOM /
ULCHI FOCUS LENS



Rock Drills

APS - 3 Mobile Training Team



MISSION : TRAIN HEAVY BRIGADES TO DRAW PREPO AF

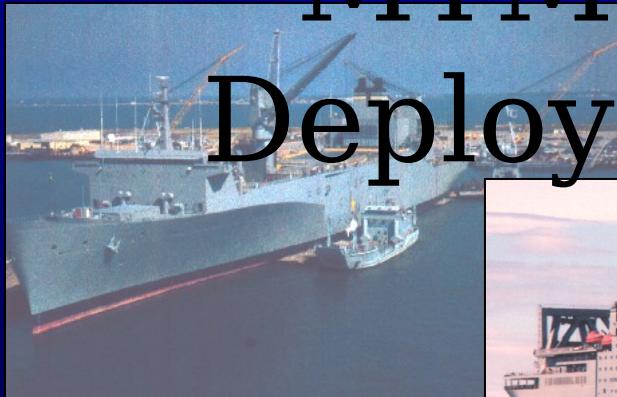
Collective Training



Combinining SEDRE & NTC Rotation:

- Better Training
- Reduced OPTEMPO
- Reduced Costs (Varies by location)

MTMC Warfighter Deployment Program



CSA Deployment Excellence Award

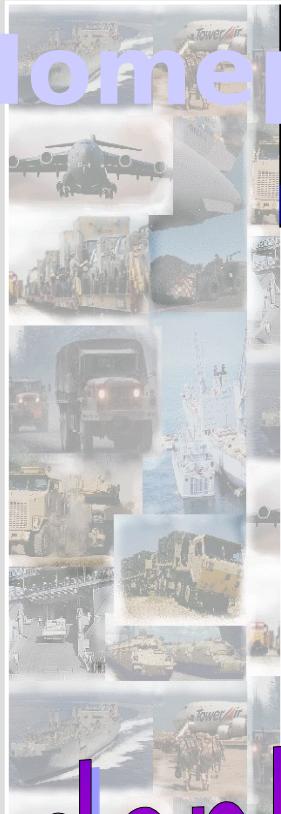
➤ Recognize units and installations for outstanding deployment accomplishments which meet or exceed established deployment standards



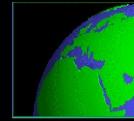
➤ Capture and share innovative deployment initiatives which have improved the deployment



DPMO Homepage



"Helping to Achieve Strategic Responsiveness in the 21st Century"
**DEPLOYMENT
PROCESS
MODERNIZATION
OFFICE**



FORT EUSTIS, VIRGINIA

[HOME](#) [Ops & Tng](#) [Info Fusion](#) [Doc & Future](#) [BattleLab](#) [Org Chart](#)

Mission:

To serve as the Total Army's subject matter experts on Force Projection operations; provide supporting doctrine, education guidance and training assistance; support experimentation, integrate future concepts, formulate requirements, and assist in the development of force structure

FY 2000 FOCUS:

- Serve as adjunct to DCSOPS and DCSLOG on Force Projection Issues.
- Support testing and fielding of TC-AIMS II.
- Develop automated tools to assist deployment planners.
- Participate in the Army XXI Corps redesign and the Army After Next.
- Participate and support Army Experimentation Campaign Program (AECP) with Force Projection experimentation.
- Collaborate in developing end-to-end modeling and simulation of Force Projection operations.

[TC-AIMS II](#)

[TC-AIMS II Briefing](#)

[Rock Drill Briefings](#)

[Force Projection
Doctrine Library](#)

[Briefings Library](#)

[Photo Library](#)

[Brochure
\(Front and Back\)](#)

[Deployment Process
Online Yellow Pages](#)

[Deployment
Terms and Definitions](#)

[Deployment Information](#)

[Deployment Guides](#)

[AIT Doctrine
Working Group](#)



www.deploy.eustis.army.mil

TC-AIMS II

DOCTRINE

Battle Lab